

## CLAIMS

1. An antibody that has ability to inhibit the transport activity of a peptide transporter.
- 5 2. The antibody of claim 1, wherein the peptide transporter is PepT1 or PepT2.
3. The antibody of claim 2, wherein the peptide transporter is PepT1.
4. The antibody of any one of claims 1 to 3, wherein the antibody is a monoclonal antibody.
- 10 5. A cell growth inhibitor that comprises the antibody of any one of claims 1 to 4 as an active ingredient.
6. An anti-cancer agent that comprises the antibody of any one of claims 1 to 4 as an active ingredient.
- 15 7. The anti-cancer agent of claim 6, which is pancreatic cancer.
8. A method for inhibiting the transport activity of a peptide transporter, wherein the method comprises the step of contacting a cell which expresses the peptide transporter with an antibody that binds to the peptide transporter.
- 20 9. The method of claim 8, wherein the peptide transporter is PepT1 or PepT2.
- 25 10. The method of claim 9, wherein the peptide transporter is PepT1.
11. A method for suppressing cell growth, wherein the method comprises the step of inhibiting the transport activity of a peptide transporter by contacting a cell that expresses the peptide transporter with an antibody that binds to the peptide transporter.
- 30 12. The method of claim 11, wherein the peptide transporter is PepT1 or PepT2.
13. The method of claim 12, wherein the peptide transporter is PepT1.
- 35 14. The method of any one of claims 11 to 13, wherein the cell is a cancer cell.

15. The method of claim 14, wherein the cancer cell is a pancreatic cancer cell.